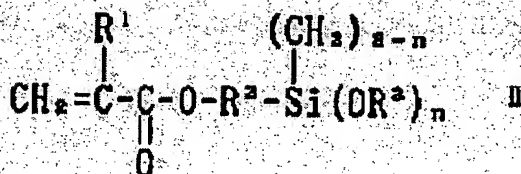


# PRODUCTION OF @{3754/24}METH)ACRYLIC FUNCTIONAL GROUP-CONTAINING ORGANOSILICON COMPOUND

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## Abstract of JP5306290

**PURPOSE:** To easily obtain the subject compound in high yield using inexpensive, easy-to-handle raw materials by reaction of a (meth)acrylic acid with an organosilicon compound having halogen-substituted hydrocarbon group in the presence of a cyclic structure-contg. tertiary amine compound.  
**CONSTITUTION:** A (meth)acrylic acid of formula I ( $R^{<1>}$  is  $CH_3$  or  $H$ ) is dissolved in e.g. toluene, and a cyclic structure-contg. tertiary amine compound (e.g. 1,8-diazabicyclo[5,4,0]undec-7-ene) is added to the resulting solution and the reaction system is heated to 90 deg.C followed by gradually dripping an organosilicon compound having Cl-or Br-substituted hydrocarbon group of formula II ( $X$  is  $Cl$  or  $Br$ ;  $R^{<2>}$  is 1-10C divalent hydrocarbon;  $R^{<3>}$  is  $CH_3$  or  $CH_2CH_3$ ;  $n$  is 1, 2 or 3) (e.g. X-chloropropylmethyl dimethoxysilane) into the system. The resultant system is heated at 90-100 deg.C for 3hr under agitation and aged, and then cooled, and a salt formed is filtered off; the filtrate is then distilled, thus obtaining the objective compound of formula III.



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